

WHAT WE CLAIM IS:

1. A computer program product, tangibly embodied in an information carrier, for use in a commercial data processing environment using at least one RFID/EPC readers and antennae for data collection, the computer program being able to read and collect tag data as it is read, create business documents for the user from a set of business rules and pre-built business document templates in electronic storage, convert both the business document and the tag data into separate database structures, join the two database structures into a single database structure and convert the single database structure back into the required business document format.
2. The computer program product of claim 1 wherein the computer program product is further operable to: send and receive business documents in any format (EDI, XML, flat file, etc.) either with or without the integrated RFID/EPC tag data.
3. The computer program product of claim 1 wherein the computer program product retroactively inserts the matching RFID/EPC tag data related to the document.
4. The computer program product of claim 1 wherein the tags are radio frequency identification (RFID) tags, each RFID tag carrying an electronic product code (EPC) as the unique tag identifier.
5. The computer program product of claim 1 wherein the computer program product is further operable to: display the integrated business documents with RFID/EPC tag data in a human-readable format to any display device.
6. The computer program product of claim 1 wherein said display device is a web browser.
7. The computer program product of claim 1 wherein said display device is a wireless PDA.
8. The computer program product of claim 1 wherein said display device is a cell phone.

9. The computer program product of claim 1 wherein the computer program product is further operable to: properly sequence all operations within the scope of both external (Business to Business) and internal business conversations and operations including all defined events between multiple parties.

10. The computer program product of claim 9 wherein said sequencing allows the computer product to control all interactions between external systems internal systems and internal or external people involved in completing the defined business events.

11. A document production system for objects identified by an RFID tag containing an electronic product code as the unique tag identifier comprising computer means to receive object identification data and compare object identification data over the internet with stored meta data pertaining to the object, and retrieve said meta data from an external source, a document repository data base containing business documents relating to the object for specific businesses and means to insert object data taken from said meta data into a plurality of business documents to create object specific business documents.

12. A document production system as claimed in claim 11 including a plurality of readers to read said objects RFID tag and transmit identification data to said computer means.

13. A document production system as claimed in claim 11 wherein said business documents are taken from a group consisting of orders, order acknowledgements, order confirmations, shipping notices, shipping receipts, invoices and maintenance advice.

14. A document production system as claimed in claim 11 wherein said stored meta data is provided by an external computer system.

15. A document production system as claimed in claim 13 wherein a choreography engine

creates additional transaction documents based on the rules defined for a specific trading partner.

16. A document production system as claimed in claim 11 wherein said document repository data base includes a translator which can take any business document and convert it into any format.

17. A document production system for objects identified by an RFID tag containing an electronic product code as the unique tag identifier comprising at least one reader to read said objects RFID tag and transmit identification data to a computer means, said computer means receiving object identification data from said RFID tag and comparing object identification data over the internet with stored meta data provided by an external computer system pertaining to the object and retrieving said meta data from said external source, a document repository data base containing business documents taken from a group consisting of orders, pick lists, acknowledgements, confirmations, shipping notices, shipping receipts, inventory records, invoices and maintenance advice, and means to insert object data taken from said retrieved meta data into at least one business document to create an object specific business document.

18. A document production system as claimed in claim 17 including a choreography engine which creates additional transaction documents based on the rules defined for a specific trading partner.

19. A document production system as claimed in claim 17 wherein said document repository data base includes a translator which can take any business document and convert it into any format.

20. A document production system as claimed in claim 17 wherein said meta data is meta-XML.